

Hypothesis Concerning Increased Overall Chance of Disease Associated with Zero-Gravity Environments

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Simon Edwards

Research Acceleration Initiative

Introduction

Researchers report having difficulty in determining the reason for the increased risk of health problems experienced by those who spend substantial amounts of time in zero-gravity environments.

Abstract

This increased risk is almost certainly directly attributable to a lack of motive force to circulate mRNA signals within the interstitia.

Under ordinary gravitational conditions, fluids accumulate and mRNA signals settle in specific areas of the interstitia only so long as a person remains motionless. When one moves about, particularly during vigorous exercise, these signals are efficiently disseminated throughout the body, thus enabling chemical communication to efficiently take place between all of the various systems of the body.

In a zero-gravity environment, even when an individual is sedentary, there is no settling of electrolytes within specific areas which can ultimately form the basis of motive force to propel chemical signals throughout the interstitia. In order for the interstitial fluids to eventually be circulated during exercise, gravity is essential as electrolytic settling is necessary as a priming step. This is the fact which is being overlooked by researchers.

In a standard-gravity environment, fluids may increase in their saturation with electrolytes in specific areas, setting the stage for the rapid dissemination of these signals when an agitating force is introduced. It is only by first over-concentrating these chemicals that they may be efficiently dispersed through an osmotic process. In a zero-gravity environment, no pockets of excessive concentration are able to form in the first place, leading to pockets of excessive concentration forming universally and with insufficient electrolytic disparity with neighboring regions to allow for osmosis to commence.

While the body tends toward a condition of homeostasis generally, the interstitia relies upon a cycle of homeostasis and heterostasis in order to support the convection of chemical signals. Zero-gravity environments result in consistent homeostasis of the interstitia which is a deeply unhealthy condition for the body as overproduction and under-delivery of mRNA signals leads to the dysfunction of multiple systems, increasing the general risk of all disease.

Conclusion

For those who must work in zero-gravity environments, pressure suits which intermittently apply squeezing force to each limb of the body can counteract this effect better than exercise alone. Some of the benefits of exercise may be realized by wearing such pressure suits here on Earth, as well.